

Missouri Department of Natural Resources
Total Maximum Daily Load Information Sheet

Wyaconda (New) Lake

Water Body Segment at a Glance:

County: Clark
Nearby Cities: Wyaconda
Length of impaired segment: 9 acres
Pollutant: Atrazine
Source: Rural Nonpoint Source
Water Body ID: 7009



Scheduled for TMDL development: TMDL established by EPA 2010

Description of the Problem

Designated Beneficial uses of Wyaconda Lake

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation
- Secondary Contact Recreation
- Public Drinking Water Supply

Use that is impaired

- Public Drinking Water Supply

Standards that apply

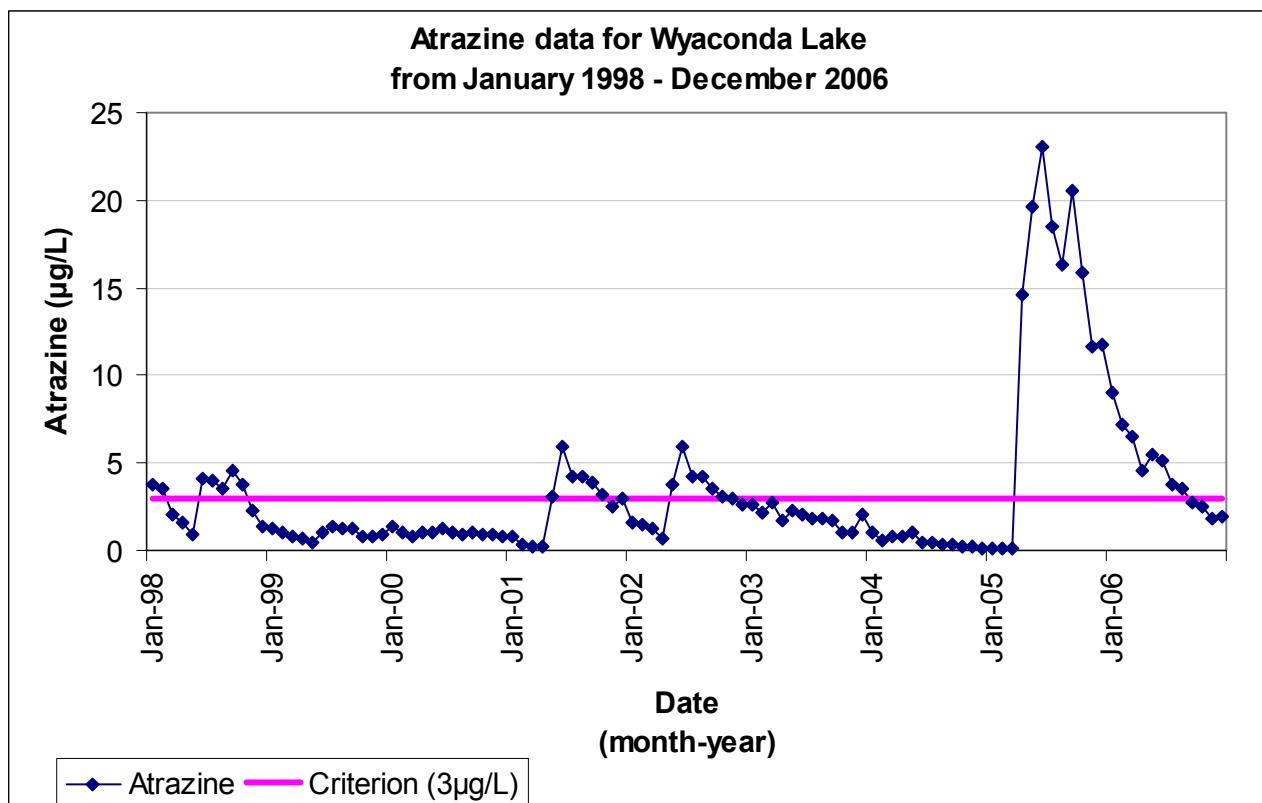
- Missouri's Water Quality Standards 10 CSR 20-7.031, Table A, allows a maximum of 3.0 micrograms per liter ($\mu\text{g}/\text{L}$) atrazine. Because this number is based on health risk associated with a 70 year exposure period, the 3.0 $\mu\text{g}/\text{L}$ is interpreted as a long term average.

Background information and water quality data

There are two lakes in Clark County named Wyaconda Lake. The older one is small and unclassified. The department has data on both lakes and, to differentiate between them, is referring to the larger, classified lake as Wyaconda New Lake. This is not the correct name for the lake and will be corrected in subsequent 303(d) lists.

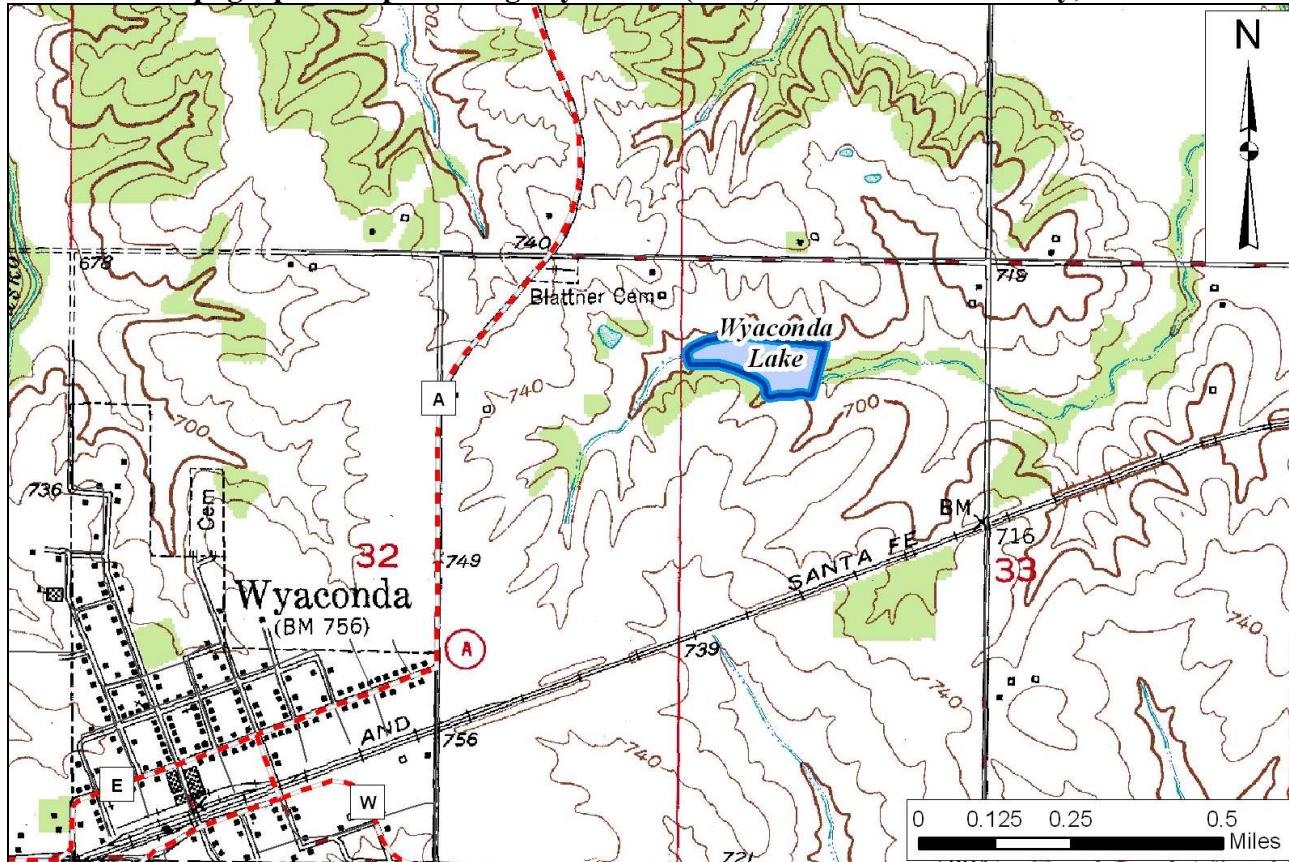
Atrazine is a widely used herbicide for control of broadleaf weeds. It is the most heavily used herbicide applied to corn and sorghum in Missouri. Since 1993, its uses have been greatly restricted. Atrazine is considered a possible human carcinogen. Between 1998 and 2006, 229 measurements of raw water were gathered from the lake. Most of these samples were collected by the company that manufactures the pesticide, Novartis (Syngenta), and a few were collected by the department. These data show the long-term average for atrazine exceeds the criterion of 3.0 $\mu\text{g/L}$.

The U.S. Environmental Protection Agency, or EPA, established a TMDL for Wyaconda Lake on Dec. 21, 2010.



A map of the lake is on the next page.

Topographic map showing Wyaconda (New) Lake in Clark County, Mo.



For more information call or write:

Missouri Department of Natural Resources
Water Protection Program
P.O. Box 176, Jefferson City, MO 65102-0176
1-800-361-4827 or 573-751-1300 office
573-522-9920 fax
Program Home Page: dnr.mo.gov/env/wpp/index.html